

Index

A

Administrative/logistical FM net, 1-5
Advanced Field Artillery Tactical Data System (AFATDS), 1-2, 1-11, 5-3
Advanced narrowband digital voice terminal (ANDVT) MINTERM, 6-4, 6-5, 10-11, 10-14
All-purpose lightweight individual carrying equipment (ALICE) pack, 3-5, 3-6
All Source Analysis System (ASAS), 5-1, 5-3
AM double sideband (DSB), 6-1
Amplifier, 3-3, 3-5, 3-8, 5-7, 6-1--6-4, A-8
 -converter AM-6879, 6-3
 /coupler AM-6874, 6-1, 6-4
 -power supply AM-7152, 6-1, 6-4
 power, 3-3, 3-5, 3-8, 5-7, 6-3, A-8
Analog interface device C-6709, 5-13, 5-14
Ancillary equipment, 3-12--3-16, 6-4
 Data fill/variable storage transfer devices, 3-12--3-16
 IHFR, 6-4, 6-5
 Remote control devices, 3-12--3-14
AN/GRA-39, 3-12, 3-14, 5-3, 6-4, 9-3--9-5
AN/GRA-50, 6-4
AN/GRC-193A, 6-1, 6-3, 6-4
AN/GRC-213, 6-1--6-4, 9-2
AN/GYK-33, 8-1, 8-5, 8-6
AN/PRC-44, 2-1
AN/PRC-70, 2-1, 6-1, 6-4
AN/PRC-77, 1-2, A-1
AN/PRC-104, 6-1, 6-4, 9-2
AN/PSC-3, 1-2, 10-1, 10-2, 10-7--10-14, A-8

Antenna, 3-5, 4-4, 5-6, 5-7, 6-1, 6-3, 6-4, 7-2, 9-1--9-7, 10-11, A-8
Broadband, 3-5, 5-7
Coupler CU-2064, 6-3, 9-3
Distance separation, 5-6, 5-7, 9-1--9-7
Doublet, 6-4
Ground-plane, 3-5, 4-4, 5-7
Low-gain, 10-11
Manpack, 3-5
Medium-gain, 10-11
Remoting kit, 9-3
Skywave, 6-4
Vehicular, 3-5, 6-3
Whip, 3-5, 6-3, 6-4
AN/TTC-38, 1-3
AN/TTC-39, 1-3
AN/UGC-74, 5-3, 10-9
AN/URC-101, 1-2, 10-1
AN/URC-110, 1-2, 10-1
AN/VHS-4, 1-2
AN/VRC-12 series, 1-2, 3-1, 3-3, 3-9, 4-3, 5-6, A-1
AN/VSC-7, 10-3
Area Common-User System (ACUS), 1-2, 1-7, 1-11, 10-12
AS-2259, 6-4

B

Becs, 2-3, 4-3, 7-1, 7-3, 7-4, 7-6--7-8, 8-1--8-6, 9-2, 9-6, A-5
Capabilities, 8-1
Components, 8-1
 Software management, 8-3
 System description, 8-1
BGU, 8-1, 8-5, 8-6
BGUI/KY-68 remote distribution, 8-5

BGUI/KY-90 remote distribution, 8-5

Brigade support area (BSA), 1-7

BSM responsibilities, 7-6

BSO responsibilities, 7-7

C

C-6709, 1-3, 5-11, 5-13, 5-14, 10-12

Cabling, 5-4, 9-3

for TACFIRE, 5-4

for voice/data operation, 5-4

Cavalry unit HF net, 1-9

Cold start, 4-2, 4-3, A-8, A-10

Combat Net Radio (CNR), 1-1, 1-11, 2-1, 5-2, 5-8, 5-11, 7-1, 7-4, 8-1, 8-2, 8-6, 9-6, 9-7, 10-1, 10-8, A-6

Deployment, 1-1--1-11, 2-1, 5-6, 5-8

IHFR, 1-1, 1-2, 1-7, 1-11, 2-1, 8-2, 9-1--9-4

Network, 1-1--1-3, 1-7, 1-11, 2-2, 5-8, 9-1, 9-2, 9-4, 9-7

SINCGARS, 1-1--1-3, 1-11, 2-1, 2-2, 5-1--5-3, 5-5--5-9, 5-11, 5-12, 5-14, 8-1, 8-2, 8-6, 9-1, 9-2, 9-4, 9-6

Special applications for deployment, 2-1--2-3

Command operations FM net, 1-5

Components, 3-1--3-16, 6-1, 6-4, 8-1, 9-6

AM-7238, 3-5

AM-7239, 3-3

AN/CYZ-7A, 3-15, 3-16

AN/GRA-39, 3-12, 3-14, 5-3, 9-3--9-5

AN/PRC-119, 3-5, 3-6

AN/VRC-87, 3-5, 3-7, 3-8

AN/VRC-88, 3-5

AN/VRC-89, 3-5, 3-7--3-9

AN/VRC-90, 3-8

AN/VRC-91, 3-8

AN/VRC-92, 3-5, 3-8, 3-9

AS-3900, 3-5

C-11291, 3-12, 3-13

MT-6352, 3-3

MX-10579, 3-14, 3-15, 8-2, A-8, A-9, A-13

OE-254, 3-5, 4-4, 5-7, 9-4

RC-292, 3-5, 4-4

RT-1439, 3-1, 3-2

RT-1476, 3-1, 3-5, 3-9, 3-10

RT-1477, 3-1, 3-4, 3-9, 3-11

RT-1478, 3-1, 3-4, 3-9, 3-12

RT-1523, 3-1, 3-2

Corps and Division, 1-2, 1-7, 1-11

Data networks, 1-11

Voice networks, 1-2, 1-11

Corps medical operations, 1-10

Cue and manual, 3-1, 3-2, 4-4, 7-3

Cue frequency, 2-1, 3-1--3-3, 4-2, 4-3, 5-9, 5-11, 7-3

D

Data fill devices, 3-14--3-16

ECCM fill device MX-10579, 3-15

Electronic notebook (EN) AN/ CYZ-7A, 3-15, 3-16, 5-6

Data Nets, 5-1--5-5

Channel interference, 5-3

Equipment interface, 5-3--5-5

Faxsimile, 1-2, 1-11, 5-2

Rate adapter, 5-1

Rates, 1-11, 5-1--5-3

Data rate adapter (DRA), 3-3, 3-9, 5-1--5-3,

ADA, 5-1, 5-2

AFATDS, 5-3

ASAS, 5-1, 5-3

CNR Systems, 5-2

FA, 5-1, 5-2

MCS, 5-1, 5-3

MI, 5-1, 5-2, 7-7

Data rates, 3-9, 5-1--5-3, 6-1

AD1, 5-3

AD2, 5-3

ICOM, 5-2, 5-5, 5-7

Non-ICOM, 5-2, 5-5, 5-7, 5-8

Deployment, 1-1, 2-1

CNR, 1-1,

Special applications for CNR, 2-1

Division support area (DSA), 1-7

Doctrinal networks, 1-3--1-11

HF-AM nets, 1-7--1-11

VHF-FM nets, 1-2, 1-7

E

ECCM remote fill (ERF), 4-2, 4-3, 4-5, 5-7

EN, 3-15, 3-16

encryption key (KEK), 5-5, 5-9, 7-5

Equipment, 1-1

IHFRC ancillary, 6-4

IHFRC secure, 6-4

New, 1-1

NRI, 1-2, 1-3

SINCGARS ancillary, 6-4

TRI-TAC, 1-2

Equipment hookup--C-6709 to SINCGARS, 5-14

Equipment hookup--KY-90 to SINCGARS, 5-12

F

FAADC2I, 5-1, 5-3

Facsimile, 5-2, 5-3

MSRT, 5-2

SINCGARS, 5-2

Fill position allocation, 4-5

Frequency, 3-1--3-3, 3-5, 4-1--4-4, 7-1--7-4, 7-6, 7-7, A-2, A-5, A-9, A-12

Cue, 3-1, 3-2, 4-2--4-4, 5-9, 5-11, 7-3, A-2, A-5

Manual, 3-2, 4-2, 7-3, A-2, A-9, A-12

Frequency hopping (FH), 1-1, 1-2, 2-2, 3-1, 3-5, 3-15, 4-1--4-4,

4-6, 5-6, 5-7, 7-1, 7-3, 7-6--7-9, 8-1, 8-2, 8-4, 9-4, A-1--

A-3, A-5, A-6, A-9--A-12

Mode, 2-2, 3-1, 3-2, 3-9, 3-14, 4-2--4-4, 4-6, 5-8, 5-11, 7-3, A-6, A-10, A-12

Networks, 4-1, 4-3, 7-3, 9-4

Variables, 2-2, 3-15, 4-1, 4-2, 5-9, 7-6--7-8, 8-1, 8-4, 9-4, A-10, A-11

Hopset, 4-1--4-6, 5-7, 7-1--

7-7, 8-1, 8-2, 9-4, 9-6,

A-1--A-3, A-6, A-7, A-14

Julian day/zulu time 4-1, 4-2

Net identifier, 4-1--4-4, 4-6,

5-7, 7-1, 7-2, 7-4, 8-2,

8-3, A-2, A-3, A-5, A-8

TSK, 3-14, 4-1--4-6, 7-1, 7-2,

7-4, 7-5, 8-2, 8-3, 9-4,

A-1, A-2, A-5, A-8, A-9,

A-12--A-14

Functional areas, 1-3

Air defense artillery (ADA),

1-3, 5-1, 5-2

Aviation, 1-3

Engineers, 1-3

Fire support, 1-3

Maneuver, 1-3

G

Greenwich Mean Time (GMT), 4-3,

7-5

GXC-7A, 5-3

H

Heavy division medical operations net (HF-SSB), 1-11

HF operations voice net, 1-8

High frequency single sideband (HF-SSB), 1-10, 1-11, 2-1

Hopping sequence, 4-1, 4-2, 8-2

Hopping variables, 3-2, 4-5, 5-7, 5-9, 5-11, 7-2, 7-4, 9-4

I

ICOM radio RT-1523, 3-1, 3-2

IHFRC, 1-1, 1-2, 1-7, 1-9, 1-10, 1-11, 2-1, 6-1, 6-3, 6-4, 8-2, 9-1--9-4

Ancillary equipment, 6-4

Components, 6-1, 6-4

Secure equipment, 6-4

System configurations, 6-4

System description, 6-1

Intelligence FM net, 1-6

Intravehicular remote control unit (IVRCU), 3-12, 3-13

J

Joint/Combined Operations, 2-1,
2-2
JCS, 2-1, 2-2

K

KG-84, 1-11, 6-4, 8-5, 8-6
KW-7, 6-4
KY-65 Parkhill, 6-4, 6-5
KY-90, 1-2, 5-9, 5-11, 5-12, 7-5,
8-5
KYK-13, 5-5
KYX-15, 5-5

L

Late net entry (LNE), 4-2, 7-5
Local SOI distribution, 8-6
**Lockout sets (applicable for
SINCGARS only)**, 7-3, 8-2
Logistics support HF net, 1-9

M

Management,
B ECS software, 8-3
CNR frequency, 7-1--7-9
Time, 7-5
TSK, 7-4
Maneuver control system (MCS),
5-1, 5-3
Manual frequency, 3-2, 4-2, 7-3
MSE, 1-1, 1-2, 5-8, 5-9, 5-11,
7-4, 7-5, 10-7

N

Net control station (NCS), 3-2,
3-3
Nets,
Administrative/logistical FM,
1-5
Cavalry unit HF, 1-7, 1-9
Command operations FM, 1-5
**Corps medical operations
(HF-SSB)**, 1-10

**Heavy division medical
operations (HF-SSB)**, 1-11
HF operations voice, 1-8
Logistics support HF, 1-9
**Separate medical battalion
operations (HF-SSB)**, 1-10

Networks,

CNR, 1-1
Data, 1-11, 4-6
Doctrinal, 1-3
FH, 4-1, 4-3
FM, 1-3
HF, 1-7
HF C², 1-7
Requirements, 5-1
VHF-FM, 1-3, 1-7
Administrative/logistics, 1-3
C², 1-3
Intelligence, 1-3
Voice, 1-2, 1-11
New equipment, 1-1
Non-ICOM radio RT-1439, 3-2, 3-4,
4-5, 5-2, 5-5
**NRI zones and hopset usage for
five-division corps**, 5-10

O

OE-303, 4-4
CNR network, 1-1
MSE and TRI-TAC interface, 1-2,
1-3

P

Power amplifier, 3-3, 3-5, 3-8,
6-4
AM-6545A, 6-3
AM-7238, 3-5

R

Radio,
ICOM, 3-1, 3-2, 3-12
Manpack AN/PRC-119, 3-6
net structure, 1-4
Non-ICOM, 3-1, 3-2, 3-5
set AN/GRC-193, 6-3

- set AN/GRC-213, 6-2
- set components, 3-4, 3-5
- Rear operations FM net, 1-3, 1-6
- Remote, 3-12--3-14, 4-3, 8-7, 9-3
 - cabling (IHFR), 9-3
 - configuration (IHFR), 9-3
 - Control devices, 3-12--3-14
 - AN/GRA-39, 3-14
 - Control-monitor C-11291, 3-12, 3-13
 - Control unit (RCU), 3-12, 3-13
 - Fill procedures, 4-3
 - SOI distribution, 8-7
 - Remoting of TACFIRE devices, 5-5
 - Responsibilities, 7-6, 7-7
 - BSM, 7-6
 - BSO, 7-7
 - Retransmission, 5-6, 5-8
 - Nonsecure, 5-8, 5-9
 - Secure, 5-7, 5-8
 - VHF-FM, 5-6
 - Retransmit operation, 5-6, 5-7
 - RT-1209, 6-1, 6-4
 - RT-1209 and amplifier/coupler, 6-2
 - RT-1539 (MSRT/RAU), 7-4
- S
- Secure devices, 5-7
 - VINSON, 5-9
- Secure digital NRI unit KY-90, 5-12
- Secure remote control HYX-57, 9-5
- Separate medical battalion operations net (HF-SSB), 1-11
- SINCGARS, 1-1--1-3, 1-11, 2-1, 2-2, 3-1--3-16, 4-1--4-6, 5-1--5-14, 5-16, 6-1, 7-3--7-5, 8-1, 8-2, 8-6, 9-1, 9-2, 9-4, 9-6, A-1--A-7
- Ancillary equipment, 3-12
- Components, 3-1
- Data nets, 5-1
- Network requirements, 5-1
- Nonsecure retransmission, 5-7, 5-8
- NRI systems, 5-8
- Planning, 5-1
- Secure devices, 5-5
- Secure retransmission, 5-7
- System description, 5-1
- Suggested SOP, A-1--A-14
- VHF-FM retransmission stations, 5-6
- Single-Channel, 3-1, 4-4
 - Frequencies, 4-2, 4-4
 - Mode, 3-9, 4-2
 - Nonhopping network, 4-4
- SOI, 2-2
- SOI extract for SINCGARS network, 7-3
- SOP, 4-3, 4-4, 4-6, 5-1 A-1--A-14
- Special Forces, Rangers, and Long-Range Surveillance Units (LRSUs), 2-1
- Special siting considerations, 9-1
 - Cosite interference, 9-1
 - Overview, 9-1
 - Solutions, 9-2
 - Symptoms, 9-2
- Systems,
 - ACUS, 1-2, 1-7
 - ADDS, 1-1, 1-2
 - AFATDS, 1-2, 1-11, 5-3
 - ASAS, 5-3
 - BECS, 2-3, 8-1--8-3
 - IHFR, 1-1, 1-2, 1-7, 1-11, 2-1
 - SINCGARS, 1-1--1-3, 1-11, 5-1--5-14
 - TACFIRE, 1-2, 3-9
 - TACSAT, 1-1, 1-2, 1-11
- T
- Tactical Fire Direction System (TACFIRE), 1-2, 3-9, 5-3, 5-5
- TACSAT Single-Channel System, 10-1--10-13
 - Antijamming techniques, 10-13
 - Architecture, 10-4
 - Burst communications system (BCS), 10-10
 - Deployment, 10-7
 - ECCM techniques, 10-13
 - Employment, 10-8
 - Forced entry mission in a joint service operation, 10-5, 10-6

Future systems, 10-13
Planning considerations, 10-12
Ranger battalion employment, 10-9
Special Forces employment, 10-9
System configuration, 10-11
System description, 10-1
Traffic encryption key (TEK), 5-5,
 5-9, 5-11
TSK variable, 4-2, 4-3, 4-5
Typical HF operations voice net,
 1-8
Typical rear operations FM net, 1-6

U

Unit SOP, 4-3, 4-4, 4-6, 5-1, 5-6
UXC-7, 5-3

V

Vehicular dual long-range/
 retransmission radio AN/VRC-92,
 3-7, 3-8
Vehicular long-range radio
 AN/VRC-90, 3-8
Vehicular long-range/short-range
 radio AN/VRC-89, 3-5, 3-7, 3-8
Vehicular short-range/long-range
 dismountable radio, AN/VRC-91,
 3-8
Vehicular short-range radio
 AN/VRC-87, 3-5, 3-7

Z

Zulu time, 4-1--4-3